

PTO/SB/06A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 5

Complete if Known

Application Number	10/665,330
Filing Date	SEPTEMBER 19, 2003
First Named Inventor	MOHAN, et al.
Art Unit	1731
Examiner Name	FORTUNA, JOSE A.
Attorney Docket Number	BLB-024566-V2

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
**	A	US-3,293,114	12-20-1966		
	B	US-3,337,322	01-12-1965		
	C	US-3,469,467	09-23-1969		
	D	US-3,550,934	01-10-1974		
	E	US-3,613,972	10-20-1971		
	F	US-3,779,951	12-10-1973		
	G	US-3,786,264	01-15-1974		
	H	US-3,810,470	06-25-1974		
	I	US-3,841,634	03-02-1976		
	J	US-4,061,277	09-27-1977		
	K	US-4,133,688	01-09-1979		
	L	US-4,179,640	12-15-1979		
	M	US-4,233,325	11-11-1980		
	N	US-4,237,171	12-02-1980		
	O	US-4,241,125	12-23-1980		
	P	US-4,324,753	04-13-1982		
	Q	US-4,435,344	03-06-1984		
	R	US-4,451,505	05-29-1984		
**	S	US-4,482,980	11-20-1984		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
** *	F1	JP 2009707	1997	Oji Paper Co.	

Examiner Signature	/Jose Fortuna/	Date Considered	03/26/2007
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** No inventor name, does not comply with 37 CFR §1.98 (b)(1).

Also, some of the references were cited on the PTO-892 of 3/6/06.

PAGE 14/18 * RCVD AT 7/6/2008 1:13:49 PM [Eastern Daylight Time] * SVR:USPTO-EFXRP-6/28 * DNB:2738300 * CSID:5132486680 * DURATION (mm:ss):08:14

***Not Included. No statement of relevancy. Does not comply with 37 CFR §1.98 (a)(2).

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Sheet 2 of 5**Complete if Known**

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		Number-Kind Code ² (if known)			
**	T	US- 4,548,840	10-22-1986		
	U	US- 4,381,285	04-03-1986		
	V	US- 4,617,223	10-14-1986		
	W	US- 4,619,734	10-28-1986		
	X	US- 4,777,930	10-18-1986		
	Y	US- 4,781,243	11-01-1986		
	Z	US- 4,838,400	08-08-1989		
	A1	US- 4,898,792	02-08-1990		
	A2	US- 4,902,722	02-26-1990		
	A3	US- 4,946,767	06-07-1990		
	A4	US- 4,982,722	01-08-1991		
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	A6	US- 5,092,485	03-03-1992		
	A7	US- 5,090,050	08-17-1992		
	A8	US- 5,125,006	08-30-1992		
	A8	US- 5,145,107	09-08-1992		
	B1	US- 5,220,585	07-13-1993		
	B2	US- 5,363,982	11-13-1994		
**	B2	US- 5,370,614	12-06-1994		

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		Number-Kind Code ² (if known)				
	B3	US-	6,424,519	06-12-1995		
	B4	US-	5,454,474	10-02-1995		
	B5	US-	5,477,917	12-26-1995		
	B6	US-	5,478,988	12-26-1995		
	B7	US-	5,490,631	02-13-1996		
	B8	US-	5,499,466	03-10-1996		
	B9	US-	5,520,103	05-28-1996		
	C1	US-	5,604,744	02-11-1997		
	C2	US-	5,637,389	08-10-1997		
	C3	US-	5,705,242	01-06-1998		
	C4	US-	5,769,824	08-02-1998		
	C5	US-	5,792,308	08-11-1998		
	C6	US-	5,800,676	08-04-1998		
	C7	US-	5,800,495	09-09-1999		
	C8	US-	5,884,006	03-16-1999		
	C9	US-	5,952,066	09-14-1999		
	D1	US-	6,379,487	04-30-2002		
		US-				
		US-				

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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PTO/SB/088 (08-03)

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Substitute for form 1448/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/685,330		
		Filing Date	SEPTEMBER 19, 2003		
		First Named Inventor	MOHAN, et al.		
		Art Unit	1731		
		Examiner Name	FORTUNA, JOSE A.		
Sheet	4	of	5	Attorney Docket Number	BLB-024566-V2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/JAF/	A	Tappi/May 1972, Vol. 55, No. 5, pg. 770-771	
/JAF/	B	Tappi/December 1973, Vol. 56, No. 12, pg. 158-160	
/JAF/	C	"The Use of Microspheres to Improve Paper Properties", by Soderberg, Paper Technology, August 1989, pgs. VIII/17-VII/21	
	D	"XPANCEL" An Introduction, a publication from Expancel, Box 13000, SO-850 13 Sundsvall, SWEDEN	
/JAF/	E	"The Application of Microspheres for the Production of High Bulk Papers", by M. Baumeister, Das Papier, Vol. 26, no. 10A: 716-720 (1972)	
/JAF/	F	"Microspheres find use as fiber replacement in low-density board", by David O. Bowen, Pulp & Paper November 1976, pg. 126-127	

Examiner Signature	/Jose Fortuna/	Date Considered	03/26/2007
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PTO/SB/068 (08-03)

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**INFORMATION DISCLOSURE
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Sheet

5

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Application Number	10/665,330
Filing Date	SEPTEMBER 19, 2003
First Named Inventor	MOHAN, et al.
Art Unit	1731
Examiner Name	FORTUNA, JOSE A.
Attorney Docket Number	BLB-024566-V2

NON PATENT LITERATURE DOCUMENTS

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****	G	EXPANCEL - Expandable Microspheres in Paper and Board, by Mark Lunabba, KemaNord Plast AB, Sector Microspheres, Box 13000, S-830 13 Sundsvall, SWEDEN	
****	H	"Expandable Microspheres in Board", World Pulp & Paper Technology, pgs, 143-145	
/JAF/	I	"Foams on the Cutting Edge", by Ray Erikson, January 1999	

Examiner Signature	/Jose Fortuna/	Date Considered	03/26/2007
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Application Number	09/770,340 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		3,293,114	D. Kenaga, et al.	12/20/1966	
		3,357,322	L. D. Gill	01/12/1965	
		3,468,467	S. W. Amberg	09/23/1969	
		3,556,934	F. Meyer	01/19/1971	
		3,615,972	D. Morehouse, et al.	10/26/1971	
		3,779,951	R. Streu	12/18/1973	
		3,785,254	Robert H. Mann	01/15/1974	
		3,941,634	H. Nisser, et al.	03/02/1976	
		4,051,277	R. M. Wilkinson	09/27/1977	
		4,133,688	W. H. Sack	01/09/1979	
		4,233,325	G. Slangan	11/11/1980	

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		Office ²	Number ³				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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10665330

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		4,435,344	A. Iio	03/06/1984	
		4,451,585	B. Andersson	05/29/1984	
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		4,548,349	R. Tunberg	10/22/1985	
		4,581,285	E. Mahefkey, Jr.	04/08/1986	
		4,617,223	D. F. Hiscock	10/14/1986*	
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		4,777,930	M. E. Hartz	10/18/1988	
		4,781,243	N. DeVogel	11/01/1988	
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		4,982,722	W. Burk Wyatt	01/08/1991	
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		5,096,650	D. J. Renna	03/17/1992	
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		5,226,585	R. Varano	07/13/1993	
		5,363,982	C. E. Sadlier	11/15/1994	
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		5,424,519	G. Salee	06/13/1995	

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Sheet 4 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		5,454,471	J. Norvell	10/03/1995	
		5,477,917	I. Salyer	12/26/1995	
		5,478,988	T. E. Hughes, et al.	12/26/1995	
		5,490,631	A. Iioaka	02/13/1996	
		5,499,460	V. G. Bryant	03/19/1996	
		5,520,103	D. Zielinski, et al.	05/28/1996	
		5,601,744	Wayne D. Baldwin	02/11/1997	
		5,637,389	David Colvin, et al.	06/10/1997	
		5,705,242	P. J. Andersen	01/06/1998	
		5,759,624	Douglas Neale, et al.	06/02/1988	
		5,792,398	Bengt Andersson	08/11/1998	
		5,880,435	William M. Bostic	03/09/1999	
		5,884,006	S. Frohlich, et al.	03/16/1999	
		5,952,068	D. Neale, et al.	09/14/1999	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ²	Number ³				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Tappi/ May 1972, Vol. 55, No. 5, pg. 770-771	
		Tappi/ December 1973, Vol. 56, No. 12, Pg. 158-160	
		"The Use of Microspheres to Improve Paper Properties", by Soderberg, Paper Technology, August 1989, pgs. VIII/17-VII/21	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ³For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete If Known

Application Number	09/770,340- 10665330
Filing Date	January 26, 2001
First Named Inventor	K. Mohan, et al.
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

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		"XPANCEL®", An Introduction, a publication from Expancel, Box 13000, S0-850 13 Sundsvall, SWEDEN	
		"The Application of Microspheres for the Production of High Bulk Papers", by M. Baumeister, Das Papier, Vol. 26, no. 10A: 716-720 (1972)	
		"Microspheres find use as fiber replacement in low-density board", by David O. Bowen, Pulp & Paper November 1976, pg. 126-127	
		EXPANCEL® Expandable Microspheres in Paper and Board, by Mark Lunabba, KemaNord Plast AB, Sector Microspheres, Box 13000, S-850 13 Sundsvall, SWEDEN	
		"Expandable Microspheres in Board", World Pulp & Paper Technology, pgs. 143-145	
		"Foams on the Cutting Edge", by Ray Erikson, January 1999	

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(use as many sheets as necessary)

Compleat If Known

Application Number	09/170,340 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

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U.S. PATENT DOCUMENTS

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		3,819,470	Shaw, et al.	06-25-1974	
		4,179,546	Garner, et al.	12-18-1979	
		4,324,753	Gill	04-13-1982	
		4,988,478	Held	01-29-1991	
		5,800,676	Koike, et al.	09-01-1998	
		6,379,497	Sandstrom, et al.	04-30-2002	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known	
		Application Number	09/770,340 106,5330
		Filing Date	January 26, 2001 June 7, 2001
		First Named Inventor	Kosaraju Krishna MOHAN
		Group Art Unit	
		Examiner Name	
Sheet 1 of 5	Attorney Docket No.	54821.P1	

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		Office ²	Number ²				
		JA	2669767	Oji Paper Co.	1997		

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